Yuan Dean Scientific CO.,LTD

13F-6X Series

RoHS Compliant

RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

FEATURES

- Magnetic designs to support every PHY
- Meet or exceed IEEE 802.3 and ANSI X3.263 standards
- including 350uH min OCL with 8mA bias
- Minimum 1500Vrms isolation per IEEE 802.3 requirement
- Designed for 100 base transmission over UTP-5 cable
- Size same as RJ-45 modular jack to save PCB board Space
- Recognized by UL 60950-1

ELECTRICAL SPECIFICATIONS @25℃-Operating temperature 0℃ TO 70℃

Part Number	Turns Ratio ±5%		EMI Fingers	LED (L/R)	Insertion Loss (dB max)	Return Loss (dB min @100Ω±15Ω)				Crosstalk (dB min)			Common Mode Rejection (dB min)			Hipot (V_{rms})
	TX	RX			0.3-100 MHz	1- 30 MHz	40 MHz	50 MHz	60-80 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
13F-60X	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-14	-12	-45	-40	-35	-35	-30	-25	1500
13F-61X	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-14	-12	-45	-40	-35	-35	-30	-25	1500
13F-62X	1CT:1	1CT:1CT	YES	N/A	-1	-18	-16	-14	-12	-45	-40	-35	-35	-30	-25	1500
13F-69GYDNW2	1CT:1	1CT:1	NO	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-69ND2	1CT:1	1CT:1	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-69GYD2	1CT:1	1CT:1	YES	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-64NW2	1CT:1CT	1CT:1CT	NO	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-64GYDNW2	1CT:1CT	1CT:1CT	NO	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-64ND2	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-64GYD2	1CT:1CT	1CT:1CT	YES	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-64GGD2	1CT:1CT	1CT:1CT	YES	G/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-61ND2	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-64AND2	1CT:1.414CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-64AGGD2	1CT:1.414CT	1CT:1CT	YES	G/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-62ANW2	1CT:1	1CT:1CT	NO	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-62AGYDNW2	1CT:1	1CT:1CT	NO	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-62AGGDNW2	1CT:1	1CT:1CT	NO	G/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-62AND2	1CT:1	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-62AGYD2	1CT:1	1CT:1CT	YES	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-62AGGD2	1CT:1	1CT:1CT	YES	G/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-62ADGD2	1CT:1	1CT:1CT	YES	YG/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-62CGYD2	1CT:1	1CT:1CT	YES	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-60CND2	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-60END2	1CT;1.41CT	1CT:1.41CT	YES	N/A	—	—	—	—	—	-40	-35	-30	-30	-20	-20	1500
13F-60VGYD2	1CT:1CT	1CT:1CT	YES	G/Y	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-61FND2	1CT:1CT	1CT:1CT	YES	N/A	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500
13F-66YGDNW2	1CT:1CT	1CT:1CT	NO	Y/G	-1	-18	-16	-12	-10	-40	-35	-30	-30	-20	-20	1500

13F - 6X GYD NW 2 NL
A B C D E F

A:Series
B:Schematics
C:Led
D:Mechanical
E:Gold Plating:1=3u",2=6u",3=15u",4=30u",5=50u"
F:RoHS version

http://www.yuan-dean.com E-mail:yds.tech@msa.hinet.net Tel:886-6-2512628
http://www.yuandean.com E-mail:yds@yds.com.tw Fax:886-6-2511858

DATE:2010-04-17

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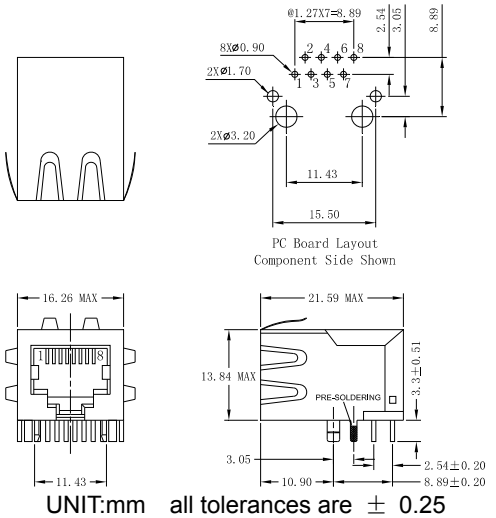
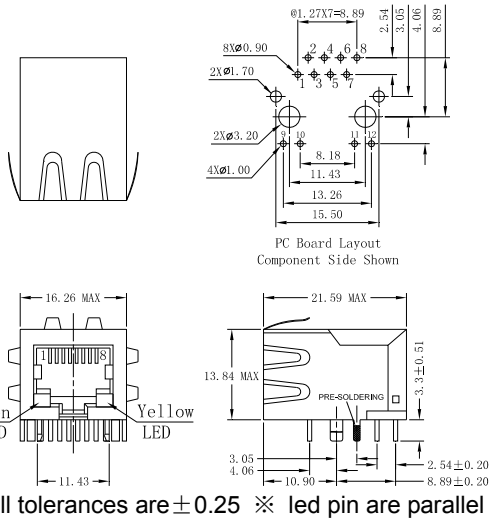
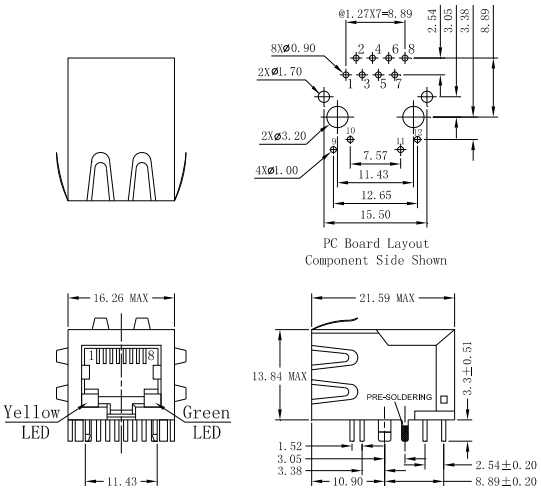
Mechanicals and Dimensions



UNIT:mm all tolerances are ± 0.25

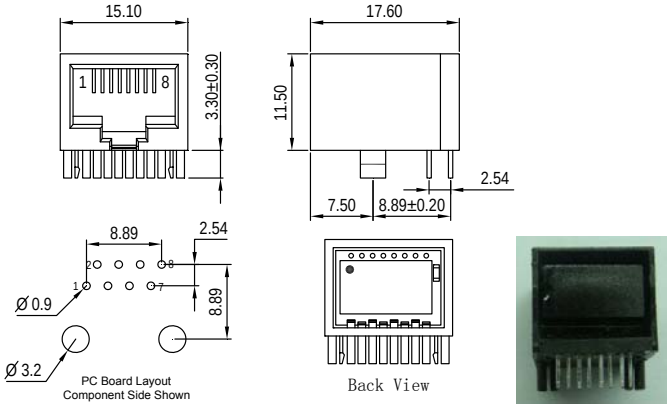


UNIT:mm all tolerances are±0.25 ※ led pin are parallel



UNIT:mm all tolerances are±0.25 ※ led pin are oblique

Single Small Module



UNIT:mm all tolerances are ± 0.25

MATERIALS

1.Housing Material:
MATERIAL:NYLON +25% GF (Fr50) UL94V-0
STANDARD COLOR:BLACK

2.Insert Material:
MATERIAL:Phos–Bronze C5210 EH---0.35mm Thickness
Insert –PBT+30% GF UL94V-0
1.PLATING(1) NICKEL
2.PLATING(2) 100%Sn
3.PLATING(3) GOLD FLASH (3u " ～50u ")

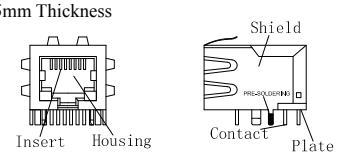
3.Plate Material:PBT-4830 +30% GF UL 94V-0

4.Contact pin Material:
MATERIAL: Phos–Bronze C5191---0.35mm Thickness
1.PLATING(1) NICKEL
2.PLATING(2) 100%Sn

5.Shielding Material:
BRASS C2680 PLATING NICKEL

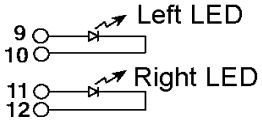
6.Operation Life : 750 Cycles Min.

7. MATES WITH MODULAR PLUG CONFORMING TO FCC PART 68,SUBPARTF.



LED Configuration

1



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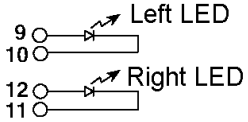

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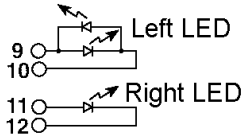

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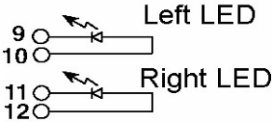

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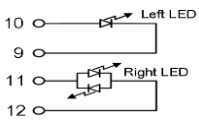

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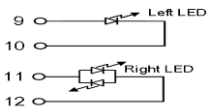


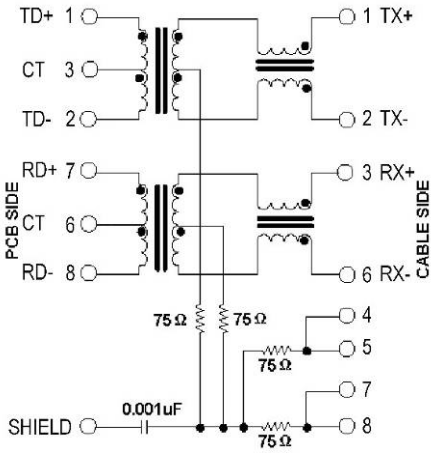
Vin=2.1Vdc TYP. 2.5Vdc MAX.

http://www.yuan-dean.com E-mail:yds.tech@msa.hinet.net Tel:886-6-2512628
http://www.yuandean.com E-mail:yds@yds.com.tw Fax:886-6-2511858

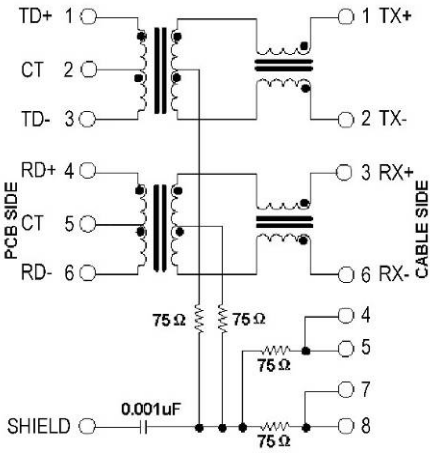
DATE:2010-04-17

SCHEMATICS

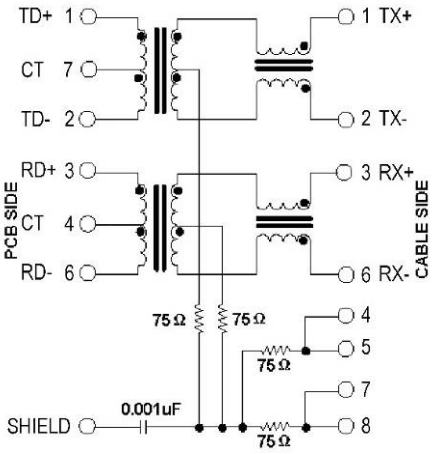
13F-60



13F-60A



13F-60C



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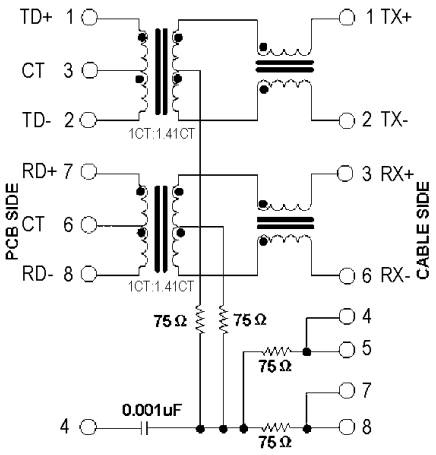

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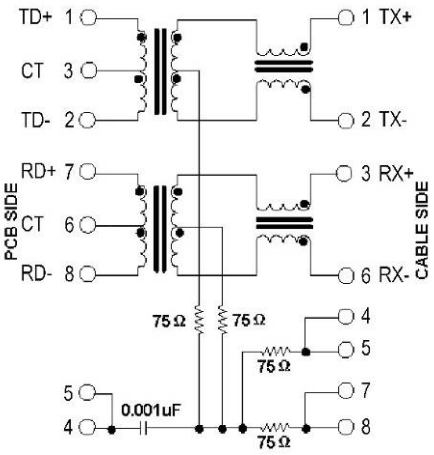

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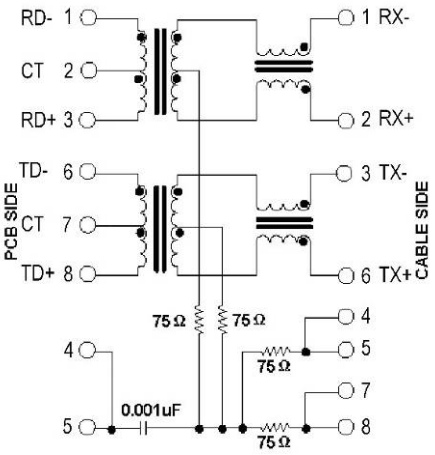

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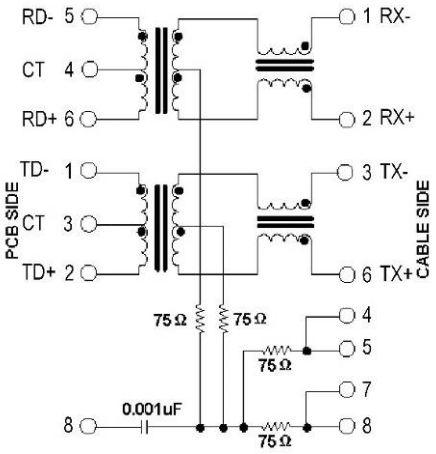

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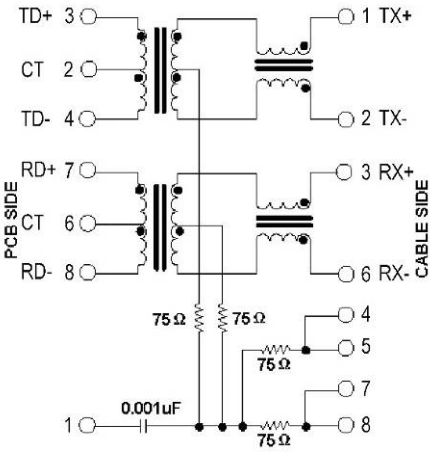
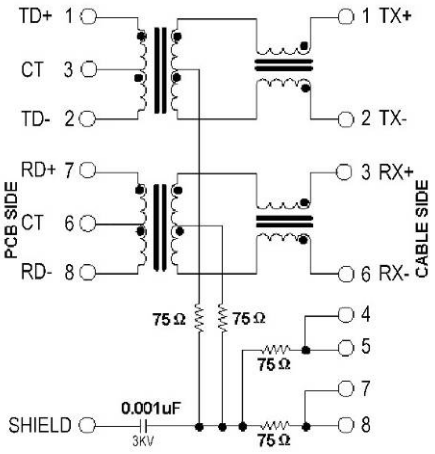


13F-60V



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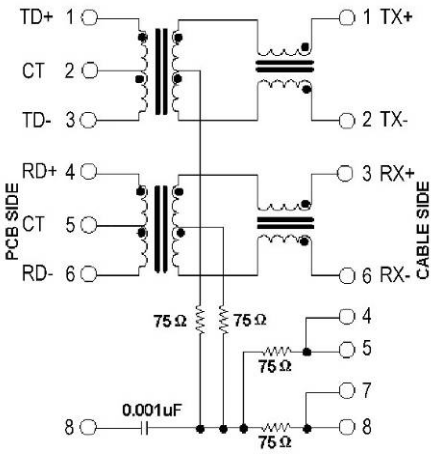
13F-61



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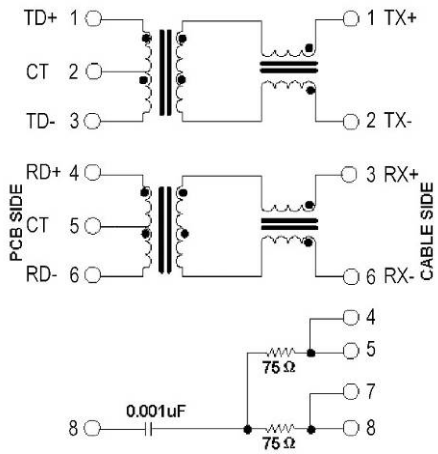

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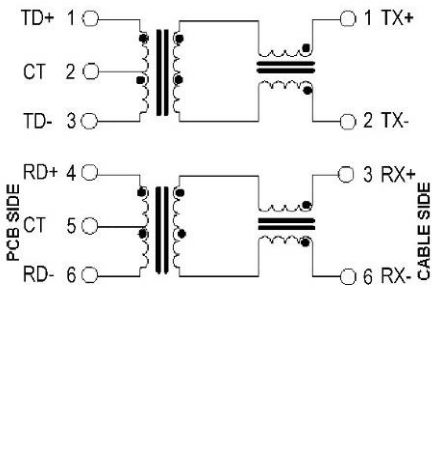

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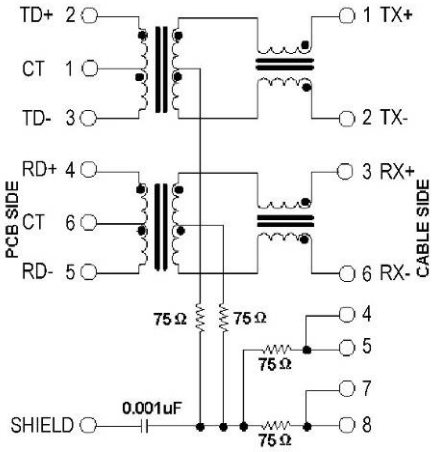

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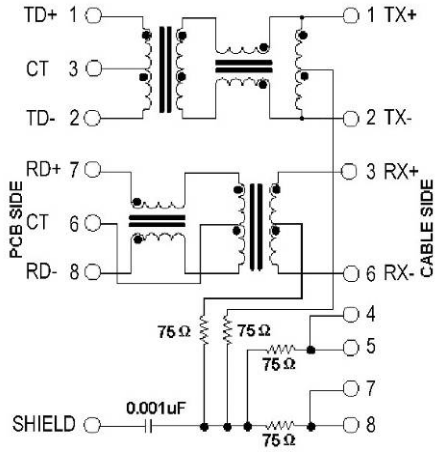

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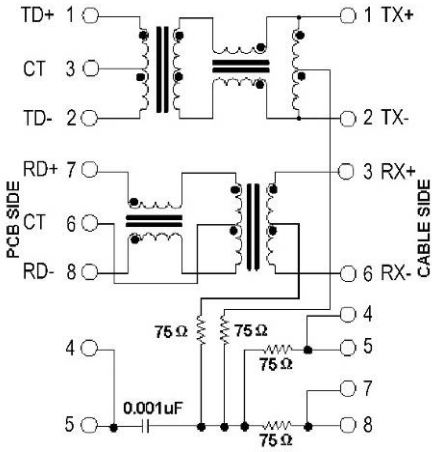

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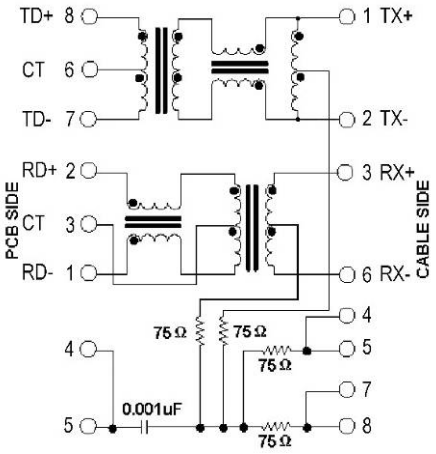

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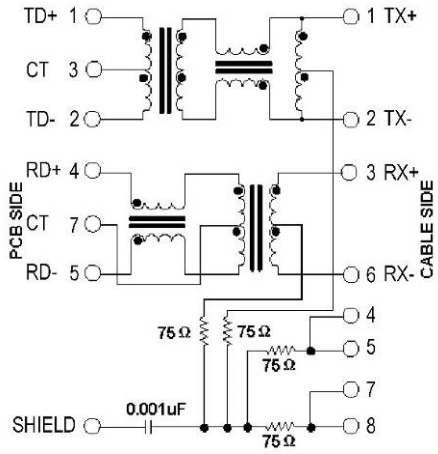
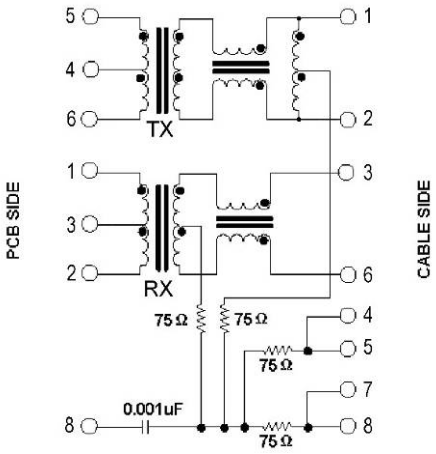


13F-62G



http://www.yuan-dean.com E-mail:yds.tech@msa.hinet.net Tel:886-6-2512628
http://www.yuandean.com E-mail:yds@yds.com.tw Fax:886-6-2511858

DATE:2010-04-17

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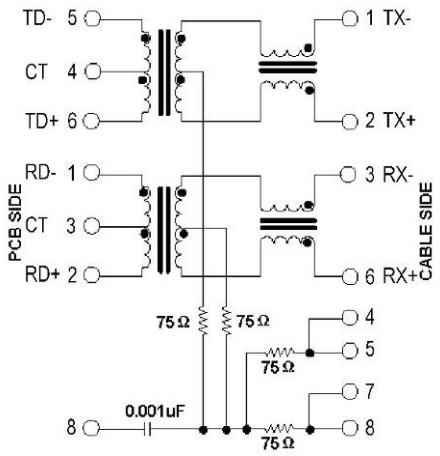
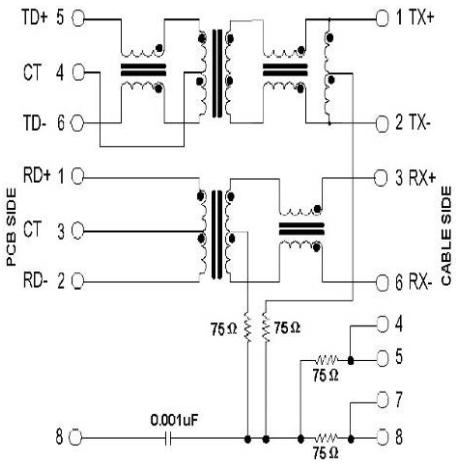
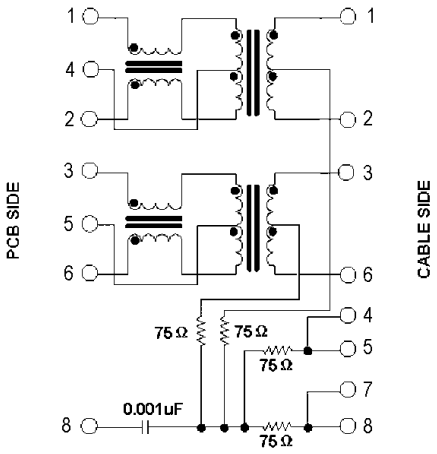
13F-62H



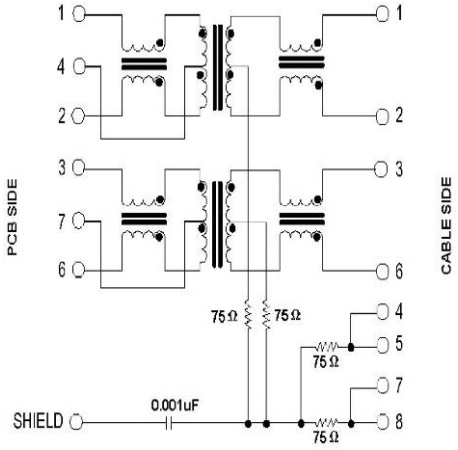
13F-62I



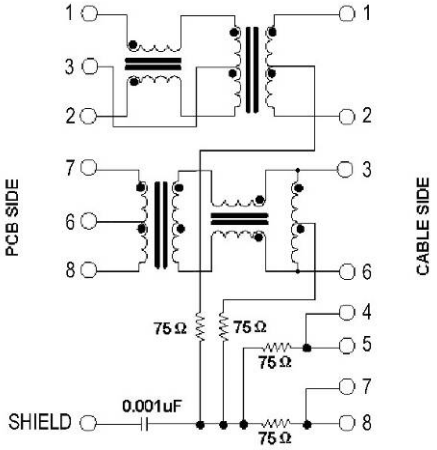
13F-62J



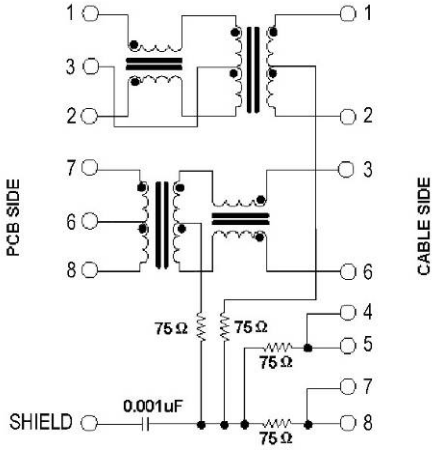
13F-62K



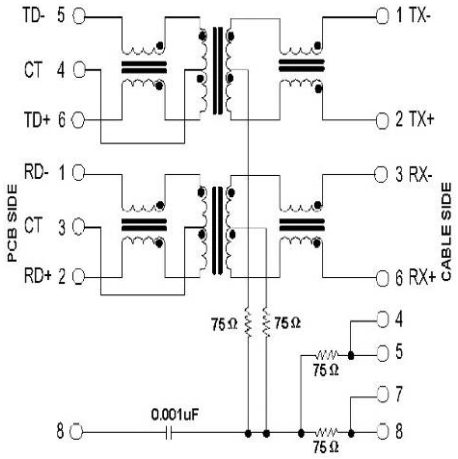
13F-62L



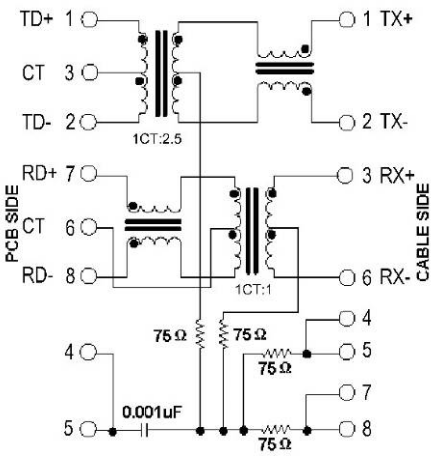
13F-62M



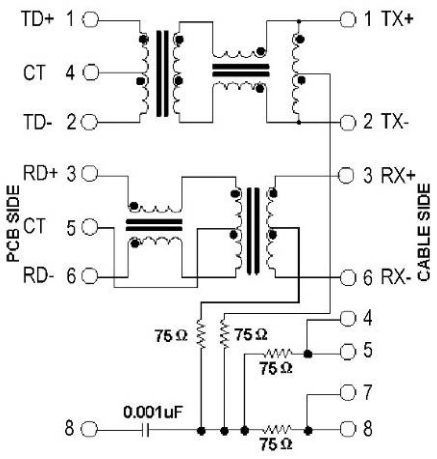
13F-62N



13F-62P



13F-62Q



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DATE:2010-04-17

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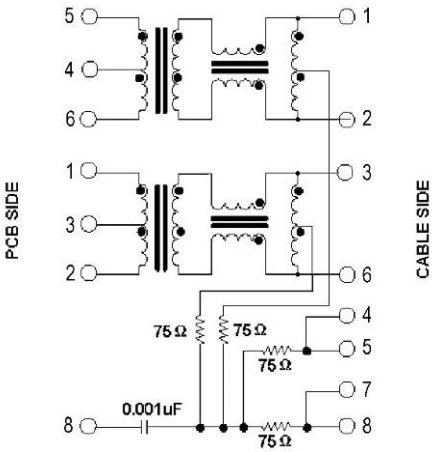
13F-6X Series

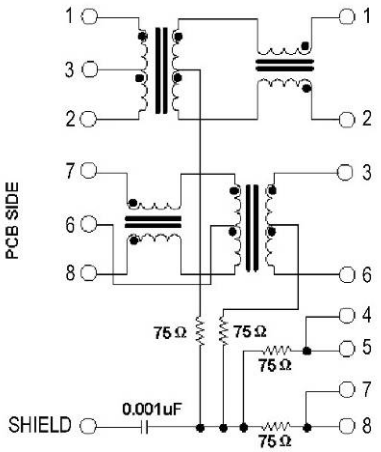
RoHS Compliant

RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

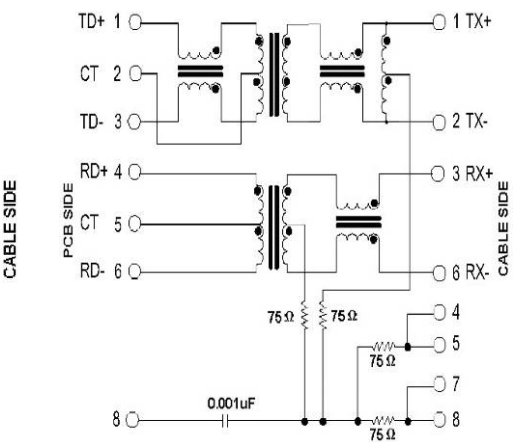
13F-62T



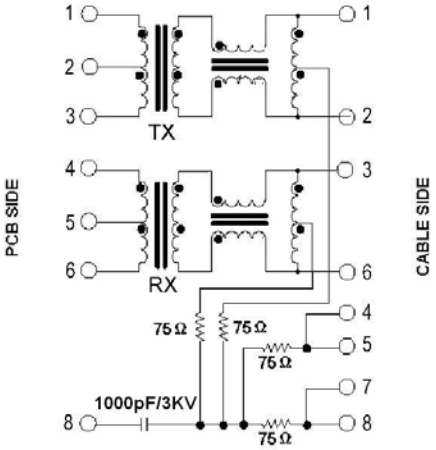
13F-62U



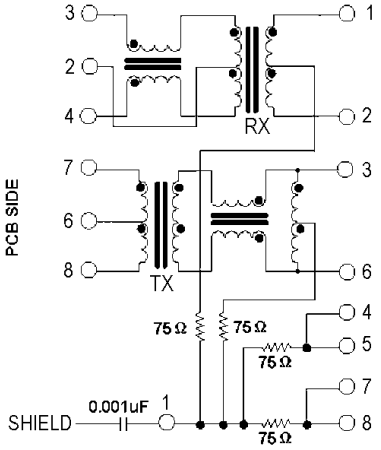
13F-62W



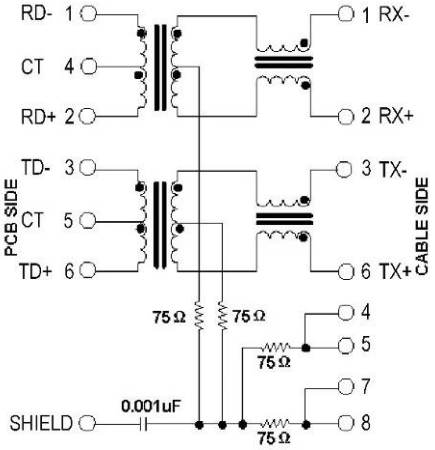
13F-62X



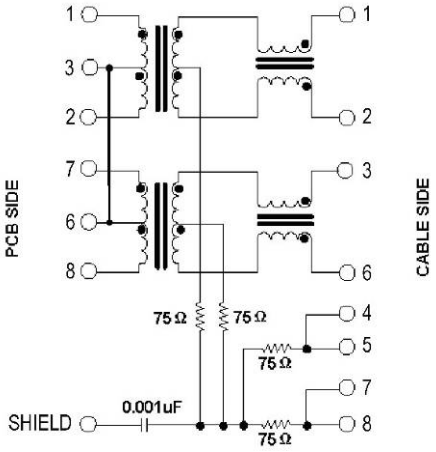
13F-62Z



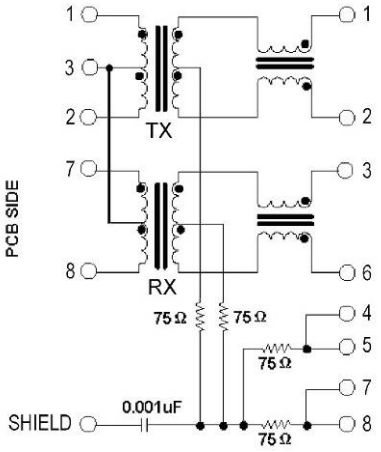
13F-63A



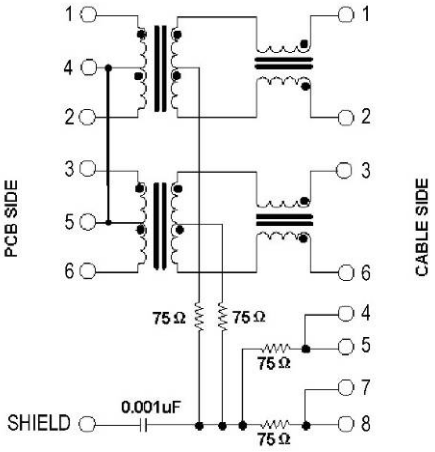
13F-63B



13F-63C



13F-63F



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13F-6X Series

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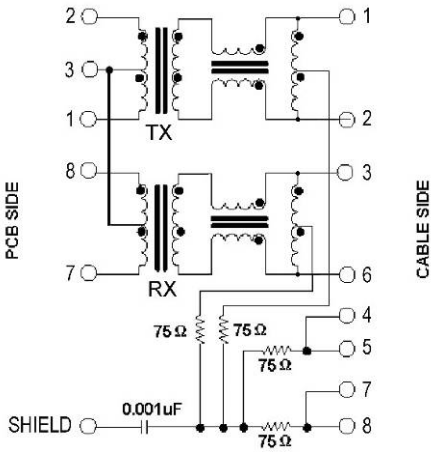
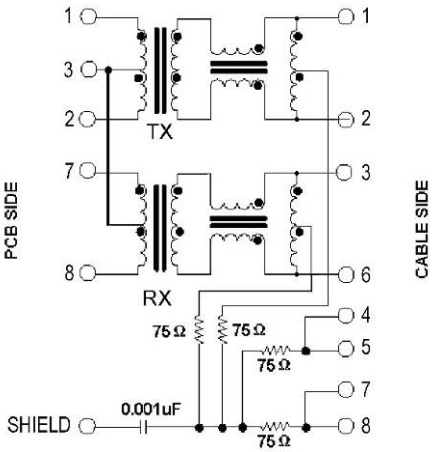
RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

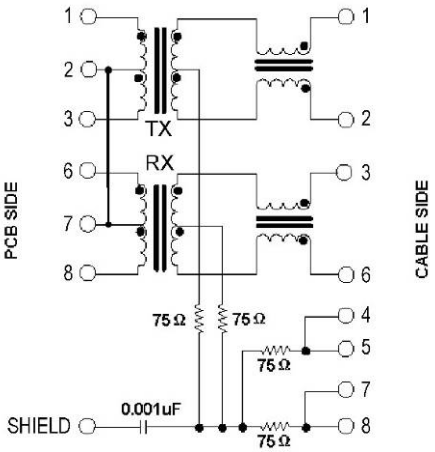
13F-63H



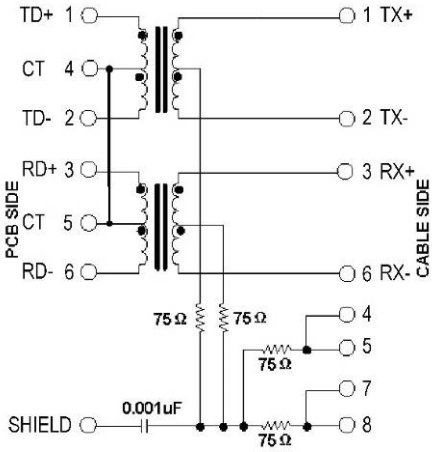
13F-63I



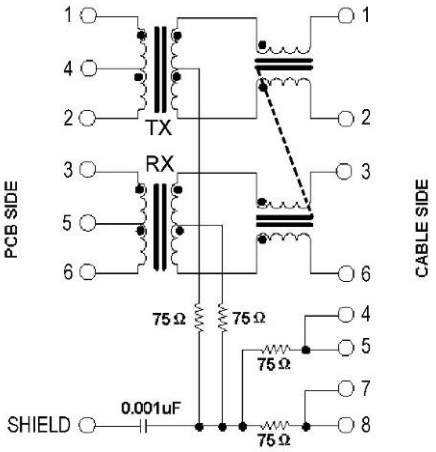
13F-63J



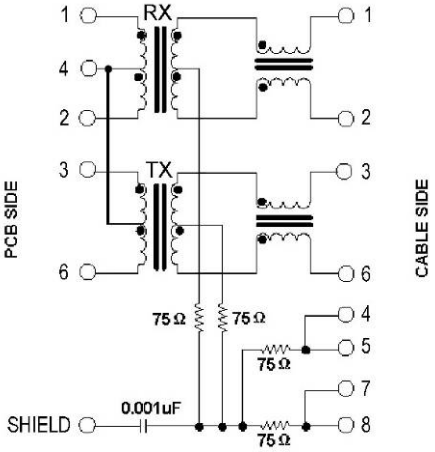
13F-63K



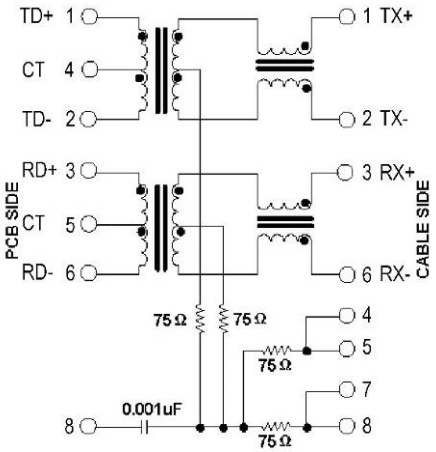
13F-63L



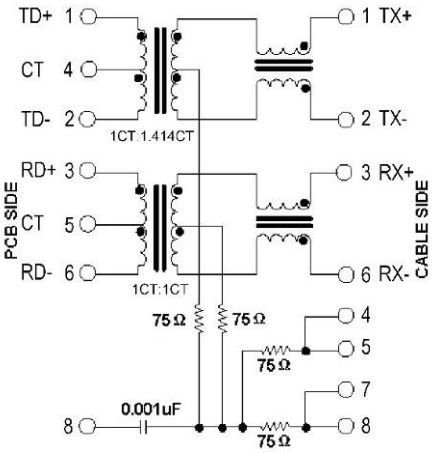
13F-63M



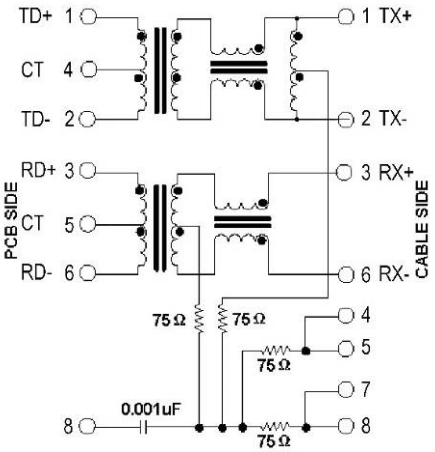
13F-64



13F-64A



13F-64B



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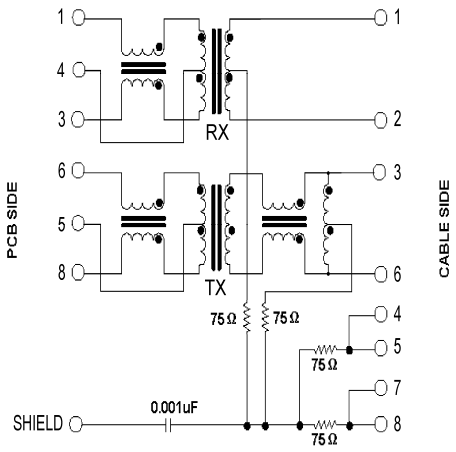
13F-6X Series

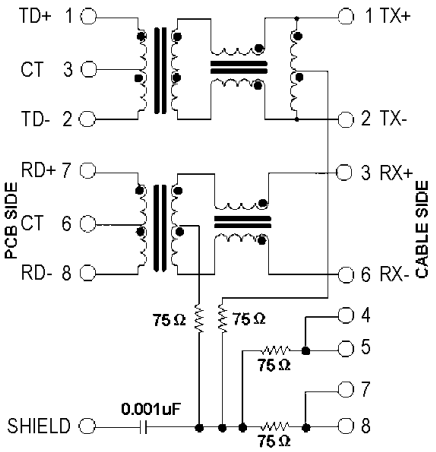
RoHS Compliant

RJ45 10/100 BASE-T JACK WITH MAGNETIC MODULE

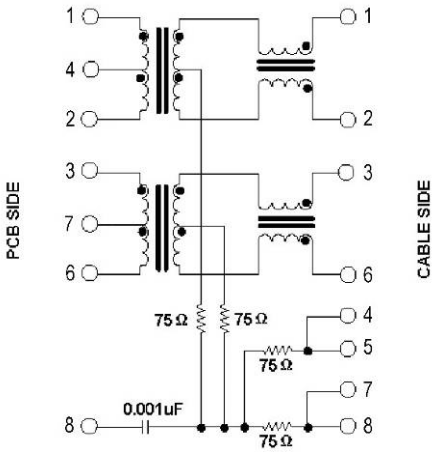
13F-64J



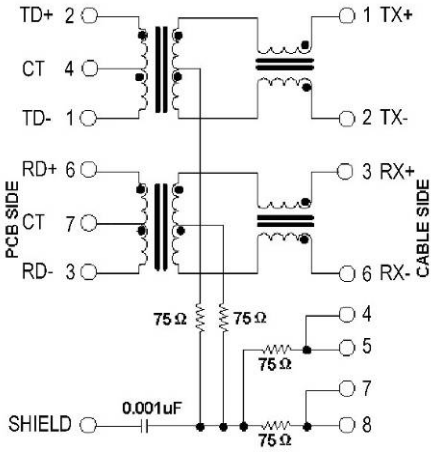
13F-64K



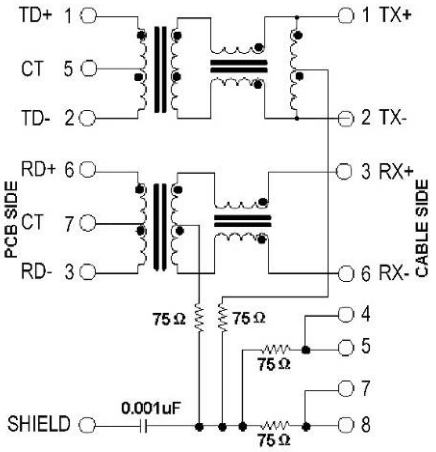
13F-65



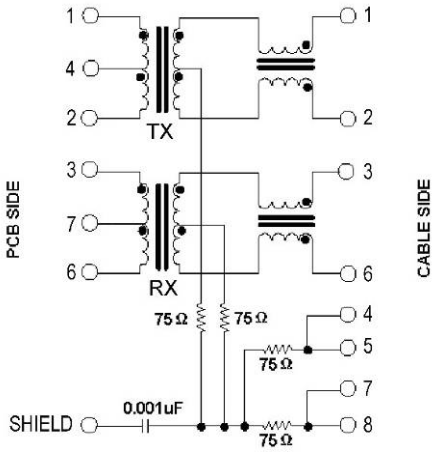
13F-66



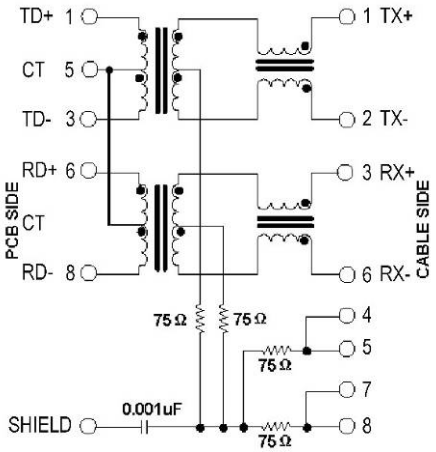
13F-66A



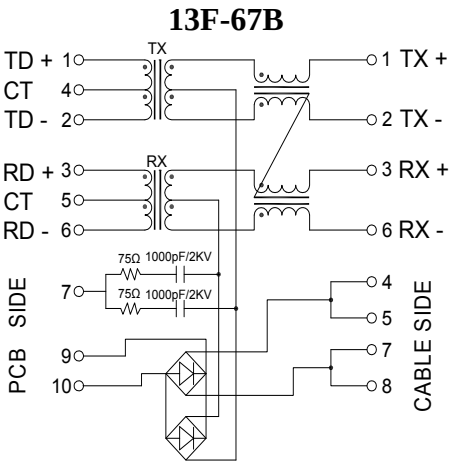
13F-66B



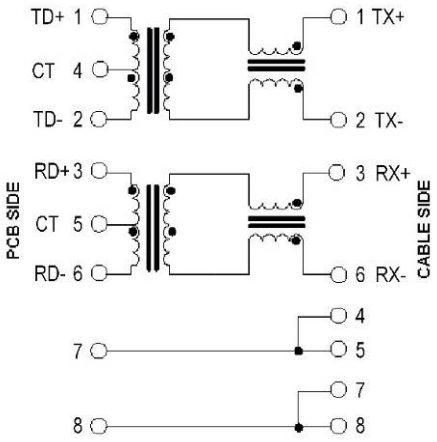
13F-67A



13F-67B



13F-69



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Yuan Dean Scientific CO.,LTD

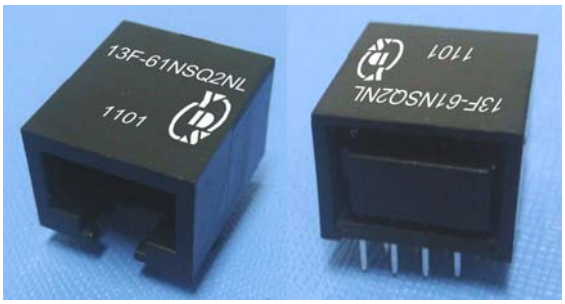
13F-6XQ Series

RoHS Compliant

RJ45 10/100 BASE-T JACK WITH MAGNETIC SINGLE SMALL MODULE

FEATURES

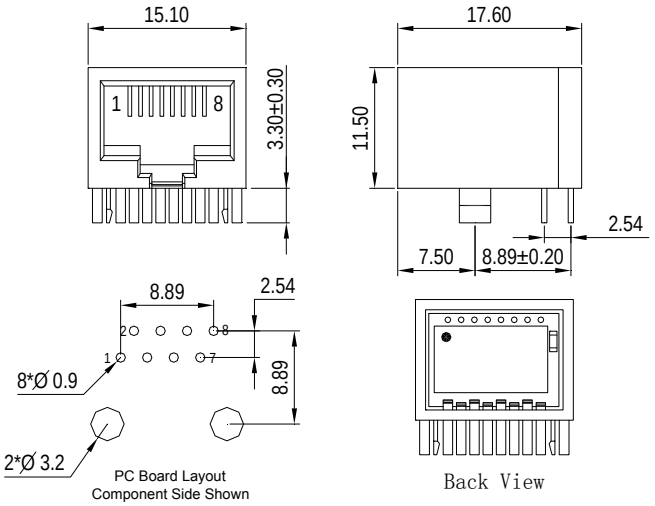
- Magnetic designs to support every PHY
- Meet or exceed IEEE 802.3af and ANSI X3.263 standards
- Meet IEEE 802.3at standards
- including 350uH min OCL with 8mA bias
- Minimum 1500Vrms isolation per IEEE 802.3 requirement
- Designed for 100 base transmission over UTP-5 cable
- Size same as RJ-45 modular jack to save PCB board Space
- Recognized by UL 60950-1



ELECTRICAL SPECIFICATIONS @25℃-Operating temperature 0℃ TO 70℃

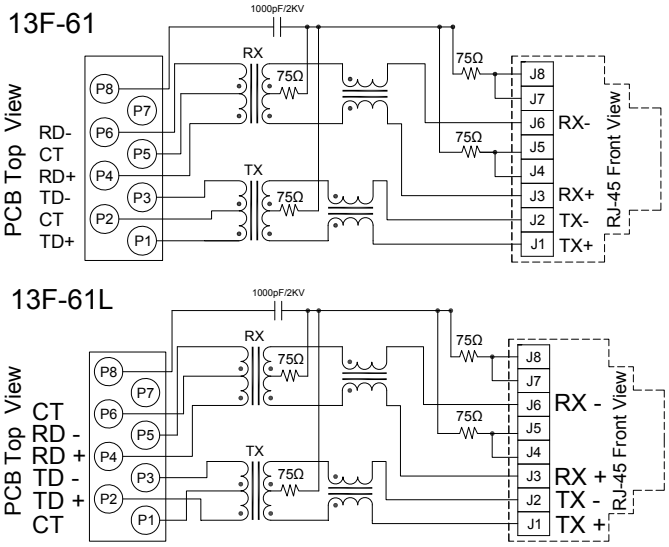
Part Number	Turns Ratio Pri:Sec. ±5%		Insertion Loss (dB MAX)	Return Loss (dB MIN @100 Ω)				Crosstalk (dB MIN.)			Common Mode Rejection (dB MIN.)			Hipot (V_{rms} MIN)
	TX	RX	0.3-100 MHz	1-30 MHz	40 MHz	50 MHz	60-80 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
13F-61NSQ2	1CT:1CT	1CT:1CT	-1.0	-18	-16	-14	-12	-40	-35	-30	-35	-30	-25	1500
13F-61LNSQ2	1CT:1CT	1CT:1CT	-1.0	-18	-16	-14	-12	-40	-35	-30	-35	-30	-25	1500

Mechanicals and Dimensions



UNIT:mm Unless otherwise specified,all tolerances are ±0.25

SCHEMATICS



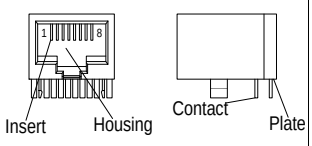
MATERIALS

1. Housing Material:
MATERIAL:NYLON GF (Fr50) UL94V-0
STANDARD COLOR:BLACK

2. Insert Material:
MATERIAL:Phos–Bronze C5210 EH---0.35mm Thickness
Insert –PBT GF UL94V-0
1.PLATING(1) NICKEL
2.PLATING(2) 100%Sn
3.PLATING(3) GOLD (3u " ～50u ")

3. Plate Material: PBT GF UL 94V-0

4. Contact pin Material:
MATERIAL: Phos–Bronze C5191---0.35mm Thickness
1.PLATING(1) NICKEL
2.PLATING(2) 100%Sn



5. Operating Life:750 Cycles MIN.

6. MATES WITH MODULAR PLUG CONFORMING TO FCC PART 68,SUBPARTF.

Part Number

13F	-	61	NS	Q	2	NL
A		B	C	D	E	F

A:Series
B:Schematics
C:Mechanical
D:Single Small Module
E:Gold Plating:1=3u",2=6u",3=15u",4=30u",5=50u"
F:RoHS version

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